



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/9/4 454 A

Source:

PCT09

Date Processed by STIC:

6/12/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/914,454

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3   ✓   Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/914,454A

DATE: 07/05/2002

TIME: 15:39:27

Input Set : N:\Crf3\06122002\I914454.raw

Output Set: N:\CRF3\07052002\I914454A.raw

Does Not Comply  
Corrected Diskette Needed

1 <110> APPLICANT: Chiron SpA  
W--> 2 <110> APPLICANT: GRANDI Guido  
W--> 3 <110> APPLICANT: RAPPUOLI Rino  
W--> 4 <110> APPLICANT: GIULIANI Marzia Monica  
W--> 5 <110> APPLICANT: PIZZA Mariagrazia  
6 <120> TITLE OF INVENTION: ENHANCEMENT OF BACTERICIDAL ACTIVITY OF NEISSERIA ANTIGENS  
WITH  
7 OLIGONUCLEOTIDES CONTAINING CG MOTIFS  
8 <130> FILE REFERENCE: P023888WO  
9 <140> CURRENT APPLICATION NUMBER: US/09/914,454A  
10 <141> CURRENT FILING DATE: 2002-03-22  
11 <150> PRIOR APPLICATION NUMBER: US-60/121,792  
W--> 12 <151> PRIOR FILING DATE: 26/02/1999  
13 <160> NUMBER OF SEQ ID NOS: 34  
14 <170> SOFTWARE: SeqWin99

> delete multiple

<1107's only one is needed

1999-02-26 G use this format for dates

## ERRORED SEQUENCES

304 <210> SEQ ID NO: 31  
305 <211> LENGTH: 442  
306 <212> TYPE: PRT  
307 <213> ORGANISM: Neisseria meningitidis  
308 <400> SEQUENCE: 31  
309 Met Lys Lys Tyr Leu Phe Arg Ala Ala Leu Tyr Gly Ile Ala Ala Ala  
310 1 5 10 15  
311 Ile Leu Ala Ala Cys Gln Ser Lys Ser Ile Gln Thr Phe Pro Gln Pro  
312 20 25 30  
313 Asp Thr Ser Val Ile Asn Gly Pro Asp Arg Pro Val Gly Ile Pro Asp  
314 35 40 45  
315 Pro Ala Gly Thr Thr Val Gly Gly Gly Ala Val Tyr Thr Val Val  
316 50 55 60  
317 Pro His Leu Ser Leu Pro His Trp Ala Ala Gln Asp Phe Ala Lys Ser  
318 65 70 75 80  
319 Leu Gln Ser Phe Arg Leu Gly Cys Ala Asn Leu Lys Asn Arg Gln Gly  
320 85 90 95  
321 Trp Gln Asp Val Cys Ala Gln Ala Phe Gln Thr Pro Val His Ser Phe  
322 100 105 110  
323 Gln Ala Lys Gln Phe Phe Glu Arg Tyr Phe Thr Pro Trp Gln Val Ala  
324 115 120 125  
325 Gly Asn Gly Ser Leu Ala Gly Thr Val Thr Gly Tyr Tyr Glu Pro Val  
326 130 135 140  
327 Leu Lys Gly Asp Asp Arg Arg Thr Ala Gln Ala Arg Phe Pro Ile Tyr  
328 145 150 155 160

441 shown (p. 2)

## RAW SEQUENCE LISTING

DATE: 07/05/2002

PATENT APPLICATION: US/09/914,454A

TIME: 15:39:27

Input Set : N:\Crf3\06122002\I914454.raw

Output Set: N:\CRF3\07052002\I914454A.raw

329	Gly	Ile	Pro	Asp	Asp	Phe	Ile	Ser	Val	Pro	Leu	Pro	Ala	Gly	Leu	Arg
330				165						170					175	
331	Ser	Gly	Lys	Ala	Leu	Val	Arg	Ile	Arg	Gln	Thr	Gly	Lys	Asn	Ser	Gly
332				180					185					190		
333	Thr	Ile	Asp	Asn	Thr	Gly	Gly	Thr	His	Thr	Ala	Asp	Leu	Ser	Arg	Phe
334			195					200					205			
335	Pro	Ile	Thr	Ala	Arg	Thr	Thr	Ala	Ile	Lys	Gly	Arg	Phe	Glu	Gly	Ser
336		210					215					220				
337	Arg	Phe	Leu	Pro	Tyr	His	Thr	Arg	Asn	Gln	Ile	Asn	Gly	Gly	Ala	Leu
338		225				230					235					240
339	Asp	Gly	Lys	Ala	Pro	Ile	Leu	Gly	Tyr	Ala	Glu	Asp	Pro	Val	Glu	Leu
340				245					250						255	
341	Phe	Phe	Met	His	Ile	Gln	Gly	Ser	Gly	Arg	Leu	Lys	Thr	Pro	Ser	Gly
342			260						265					270		
343	Lys	Tyr	Ile	Arg	Ile	Gly	Tyr	Ala	Asp	Lys	Asn	Glu	His	Pro	Tyr	Val
344			275					280					285			
345	Ser	Ile	Gly	Arg	Tyr	Met	Ala	Asp	Lys	Gly	Tyr	Leu	Lys	Leu	Gly	Gln
346		290				295						300				
347	Thr	Ser	Met	Gln	Gly	Ile	Lys	Ser	Tyr	Met	Arg	Gln	Asn	Pro	Gln	Arg
348		305				310					315					320
349	Leu	Ala	Glu	Val	Leu	Gly	Gln	Asn	Pro	Ser	Tyr	Ile	Phe	Phe	Arg	Glu
350				325						330					335	
351	Leu	Ala	Gly	Ser	Asn	Asp	Gly	Pro	Val	Gly	Ala	Leu	Gly	Thr	Pro	
352			340					345					350			
353	Leu	Met	Gly	Glu	Tyr	Ala	Gly	Ala	Val	Asp	Arg	His	Tyr	Ile	Thr	Leu
354		355					360						365			
355	Gly	Ala	Pro	Leu	Phe	Val	Ala	Thr	Ala	His	Pro	Val	Thr	Arg	Lys	Ala
356		370					375					380				
357	Leu	Asn	Arg	Leu	Ile	Met	Ala	Gln	Asp	Thr	Gly	Ser	Ala	Ile	Asp	Gly
358		385				390					395					400
359	Ala	Val	Arg	Val	Asp	Tyr	Phe	Trp	Gly	Tyr	Gly	Asp	Glu	Ala	Gly	Glu
360				405						410					415	
361	Leu	Ala	Gly	Lys	Gln	Lys	Thr	Thr	Gly	Tyr	Val	Trp	Gln	Leu	Leu	
362			420						425					430		
363	Pro	Asn	Gly	Met	Lys	Pro	Glu	Tyr	Arg	Pro						
E--> 364			<del>435</del>	435				<del>440</del>	440							

*misaligned amino acid  
numbering - see item 3 on Error  
Summary Sheet*

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 07/05/2002  
PATENT APPLICATION:    US/09/914,454A      TIME: 15:39:28

Input Set : N:\Crf3\06122002\I914454.raw  
Output Set: N:\CRF3\07052002\I914454A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

## VERIFICATION SUMMARY

DATE: 07/05/2002

PATENT APPLICATION: US/09/914,454A

TIME: 15:39:28

Input Set : N:\Crf3\06122002\I914454.raw

Output Set: N:\CRF3\07052002\I914454A.raw

L:2 M:280 W: Numeric Identifier already exists, <110> found multiple times  
L:3 M:280 W: Numeric Identifier already exists, <110> found multiple times  
L:4 M:280 W: Numeric Identifier already exists, <110> found multiple times  
L:5 M:280 W: Numeric Identifier already exists, <110> found multiple times  
L:12 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:364 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:31  
L:364 M:252 E: No. of Seq. differs, <211> LENGTH:Input:442 Found:441 SEQ:31